

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATE	S DEPARTMENT	OF CO	имен	CE
United States Pa	atent and Tradem	ark Off	ce /	
Address: COMMIS	SIONER FOR PAT	ENTS	\d.	

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION
10/018,307	10/29/2001	Josef Scharmuller	SCHARMULLER -1 PCT 4882	
75	90 11/19/2003		EXAM	INER 9
Collard & Roe 1077 Northern Boulevard			ROYAL,	PAUL
Roslyn, NY 11576		,	ART UNIT PAPER NUMB	
			3611	

DATE MAILED: 11/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		A		Applicant(s)				
		Applicatio	n No.	Applicant(s)				
Office Action Summary		10/018,30	7	SCHARMULLER,	JOSEF			
		Examiner		Art Unit	Ah			
		Paul Roya		3611				
Period fo	The MAILING DATE of this communication or Reply	appears on the	cover sheet with the c	orrespondence ad	ldress -			
THE I - External after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory pere to reply within the set or extended period for reply will, by streply received by the Office later than three months after the mad patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no eve b. a reply within the statu briod will apply and will tatute, cause the appli	ent, however, may a reply be time story minimum of thirty (30) days I expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).	y. ommunication.			
1)⊠	Responsive to communication(s) filed on $\underline{2}$	5 August 2003.						
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ T	his action is no	n-final.					
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 4-6 is/are pending in the application	on.						
	4a) Of the above claim(s) is/are with	drawn from cor	nsideration.					
5)□	5) Claim(s) is/are allowed.							
6)⊠	6) Claim(s) <u>4-6</u> is/are rejected.							
•	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restriction ar	nd/or election re	equirement.					
Applicat	ion Papers			. !				
9)[	The specification is objected to by the Exan	niner.	<u> </u>					
10)🛛	The drawing(s) filed on 29 October 2001 is/	/are: a)⊠ acce	pted or b)☐ objected	to by the Examin	ier.			
	Applicant may not request that any objection to							
_	Replacement drawing sheet(s) including the con							
•	The oath or declaration is objected to by the	e Examiner. No	te the attached Office	Action or form P	ΓO-152.			
•	ınder 35 U.S.C. §§ 119 and 120							
* 5 13)□ / s 3 2 14)□ /	Acknowledgment is made of a claim for for All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Buscee the attached detailed Office action for a Acknowledgment is made of a claim for domince a specific reference was included in the 7 CFR 1.78.  1) The translation of the foreign language Acknowledgment is made of a claim for domesference was included in the first sentence of	nents have been nents have been priority docume ireau (PCT Rule list of the certifuestic priority ure first sentence provisional apprestic priority urestic priority urestic priority ur	n received. n received in Application to have been received in 17.2(a)). fied copies not received and a 35 U.S.C. § 119(a) of the specification or plication has been received and a 35 U.S.C. §§ 120	ion No  ed in this National  ed.  e) (to a provisional  r in an Application  ceived.  and/or 121 since	al application) Data Sheet.			
Attachmen	nt(s)							
1)  Notice 2)  Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO-1449) Paper No		4) Interview Summary 5) Notice of Informal P 6) Other:					

Art Unit: 3611

#### **DETAILED ACTION**

#### Response to Amendment

1. The amendment filed on 25 August 2003 has been entered.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 5 recites the broad recitation "Rockwell hardness 5 to 12", and the claim also recites preferably "Rockwell hardness 6" which is the narrower statement of the range/limitation.

Application/Control Number: 10/018,307

Art Unit: 3611

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 4 & 6, as best understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Coilbert et al. (US 6,113,125).

Coilbert et al. teaches a coupling device for a towing vehicle and a trailer, the coupling device comprising coupling ball (102) arranged on a coupling carrier (101) and a moulded article (101), having a ball socket (104) and a connecting plate (CPLATE, see Examiner's annotated Figure 2), said moulded article made of a ferrous material and presenting a casting crust at least on the interior of the socket, see claim 8.

Note it is well known that in the production of a cast steel moulded article (hitch coupler body) a crust forms during the casting process.

Further, the Examiner points out that Colibert et al. (US 6,113,125) teaches the ball socket 101 is made of "cast steel" and the invention of Colibert et al. includes a cam pin made of "polished steel". Colibert et al. appears to distinguish "cast steel" from "polished steel" in a manner which indicates the interior of the socket is not polished and retains the crust from the casting process. For the forgoing reasons the interior of the ball socket of Colibert et al. is understood include the crust formed during the casting process.

Application/Control Number: 10/018,307

Art Unit: 3611

Note Coilbert et al. teaches the full invention is shown in Figure 7 and the moulded article is understood to be part of the coupling carrier/full invention.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Coilbert et al. (US 6,113,125).

Coilbert et al., as applied to claim 4 teaches all the claim limitations except wherein the ball socket has a lesser hardness than the coupling ball.

It is understood to be well known to use a ball socket Rockwell hardness which is less than the hardness of the coupling ball to selectively control wear.

#### Response to Arguments

5. Applicant's arguments filed 25 August 2003 have been fully considered but they are not persuasive.

Applicant argues applicant has discovered a nonobvious use for the surface crust of the hitch socket which is contradictory to the understanding of a person of ordinary skill in the art where the nonobvious use is that by leaving the

Art Unit: 3611

post casting crust on the interior of the hitch socket, the [load] carrying capacity of the coupling device is enhanced.

Applicant should provide evidence, such as data which correlates load carrying capacity to the interior socket surface finish (including data where the surface has the claimed crust), which clearly supports applicant's assertion.

Further, the Examiner points out that Colibert et al. (US 6,113,125) teaches the ball socket 101 is made of "cast steel" and the invention of Colibert et al. includes a cam pin made of "polished steel". Colibert et al. appears to distinguish "cast steel" from "polished steel" in a manner which indicates the interior of the socket is not polished and retains the crust from the casting process. For the forgoing reasons the interior of the ball socket of Colibert et al. is understood include the crust formed during the casting process.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Royal whose telephone number is 703-308-8570. The examiner can normally be reached on 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley Morris can be reached on 703-308-0629. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1113.

P. Royal '

November 12, 2003

Paul Royal Examiner Art Unit 3611

L<u>ESLEY</u> D. MOHRIS DESTASORY PATENT EXAMINER

TECHNOLOGY CENTER 3600